



### **MLToys Electronic Speed Control for Ride-Ons**

Thank you for purchasing the MLToys.com Electronic Speed Control for Ride-On Vehicles. Installing this kit is quite simple. Read these instructions fully before starting.

#### **You will need:**

#2 Phillips head screwdriver, Drill with 1/8" drill bit, Wire cutters/strippers , Dremel tool with cut-off wheel or sharp razor knife.

Start by removing ALL of the stock wiring not including lights and sound wiring. Battery lead, shifter wires, foot pedal wires, and motor wires all go. Leave 3" of wire on the motors.

You can leave the foot pedal and shifter in place for aesthetics but they serve no purpose anymore. We prefer to just remove the foot pedal and switch from the footboard and the handle from the shifter. Don't reinstall them until the new wiring is run though.

Find a place to mount the ESC. We prefer under the dashboard out above the reach of feet. Keeps any weather off of it. When considering a location check that the wire lengths will reach your battery area and motor area. You can add more wire if needed. Drill 1/8" holes in the plastic aligning with the mounting holes in the ESC. Hand screw the ESC into place. DO NOT use a drill as you will strip the plastic.

Pick a place to mount the gas pedal and brake pedal. We recommend having your child sit in the vehicle and find the place of comfort for them. Drill 1/8" holes in the plastic aligning with the mounting holes in the pedals. Hand screw the ESC into place. DO NOT use a drill as you will strip the plastic. Secure the pedal wires so a foot doesn't yank on them. Plug into ESC.

Plug the battery wires into the ESC and run the wires to the battery compartment. The black box is the circuit breaker. Once at your battery compartment attach your battery connector.

Select a location on the dashboard to mount the forward/reverse switch. Cut a square hole to fit it. Or put the switch into your old shifter assembly. Plug the wires from the ESC into it.

Run the motor wires to the motors. For each motor, attach wires from the ESC to one end of the orange wire connectors and wires from the motors to the other end. Be sure to strip about 1/4" of insulation off of the end of the wires first.

Plug your battery in. Put the vehicle in Forward. With the rear of the vehicle raised in the air, press the gas pedal while watching the rear tires. If one spins backwards just reverse the motor wires on that connector. Put the car back together. Ta-daah!

Operation: Drive like a real car. When the gas pedal is released for 3-5 seconds the brake will automatically apply to prevent runaway cars. Pressing the gas again releases it. Be sure to UNPLUG THE CAR WHEN NOT IN USE or risk damaging the ESC and batteries.